

*Latitude of Constantinople and Rhodes; written by the Learned Mr Greaves, and communicated by the Reverend Dr Smith.* 12. *Accounts of two Books;* 1. FRANCISCI WILLUGHBEI IArmig. de Historia Piscium Libri quatuor, Jussu & Sumptibus Regiae Societatis Lond. editi. Totum opus recognovit, coaptavit, supplevit, Librum etiam Primum & Secundum integrum adjectit JO. RAIUS è Soc. Reg. Oxonii è Theatro Sheldoniano. 1686. Fol. 2. GODEFRIDI BIDLOO, M.D. *Anatomia Humani Corporis.* Amstel. Fol. 1685. 13. *An Index to the Fifteenth Volume of the Phil. Transactions.*

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### *An Explanation of the Cutts of two Porphyry Pillars in Ægypt.*

**T**AB. 1. Fig. 1. represents the *Obelisk*, or *Aiguille*, near the *Matarea*, about 3 or 4 miles from *Cairo*. The height of this Pillar is 67 foot: the bigness 7 and  $\frac{1}{3}$ , with the *Hieroglyphic Character*.

oo shews the height of the *Nile's* rising above the superficies of the Earth, when it overflows.

Tab. 1. Fig. 2. The Needle at *Alexandria*.

These Pillars are more fully describ'd in the *Phil. Transf.* Numb. 161. Their Figures, being no where extant that we know of, are here presented to the Reader, who is obliged for them to the Reverend Dr *Huntington*,

*Asus*



*Acus Magneticæ variationis, quæ Norimbergæ paucis abhinc annis deprehensa fuit, Observatio anno currente 1685, ibidem ab Observatoribus Doctore I. G. Volckamero, I. P. Wurtelbaur, & G. C. Eimmart repetita; & Regiæ Societati Lond. à Clariss. D°. And. Arnoldo, Norimbergensi, communicata.*

**I**nventa de novo linea Meridiana, sicut olim, non una, sed pluribus, partim vulgari modo, partim methodo *Heveliana*, partim etiam propria, in planis marmoreis ad libellam decenter exæquatis, diversarum mediocriter longitudinum (prout ex Epistola invitatoria Cl. Sturmii tunc edita videre est;) designabatur insuper alia longior in plano exacte horizontali, ad intervallum radii 12. pedum *Noricorum* ductus arcus, pro distinctiori gradu in sua minuta divisione: Locus idem, qui antea, maxime idoneus eligebatur; erat spatium per amplum, sub dio liberrimum, nullisque latentis magnetismi vel ferri vicini fallaciis obnoxium, in horti nempe amæna planicie, cuius areæ quadratae unum latus ducentos pedes exsuperat: in hujus spatii medio singulæ Meridianæ omni, qua fieri potuit, cura ac circumspictione investigatae, ab observatoribus rigidissime examinabantur; & continua aliquot diebus sub initium mensis *Augusti*, (tempora quidem solstitialia, huic operationi magis accommodata, destinata fuerant, sed inclemensia cœli differre coegerit) idem consensus Meridianarum, non neglecto tamen respectu tunc temporis declinationis  $\odot$ , diversimode explorabatur,

Postea quam de certitudine Meridianarum tali pacto securi reddit, applicatis variis pyxidibus magneticis, tam iis vetustioribus, quæ ante quinquennium huic usui adhibebantur

hibebantur, quam aliis recentioribus plurimis, medio-  
cris quidem longitudinis, quarum maximæ semissimæ  
pedis non excedebant, sed gracilioribus & vivacibus,  
animadvertebamus, quod mirum, declinationem acus à  
pristina nec in uno minuto discrepare, sed in quavis me-  
ridiana exacte cum priori convenire, ad Occas. scili-  
cet  $\delta^{\circ}$ .  $\delta'$ . An autem interea temporis ulterius processerit,  
ut nunc in situ retrogrado ejus deviatio deprehensa  
fuerit, quod certe casu evenisse potuisset, non liquet, cum  
nec temere istud statuere, quin in eam sententiam, quod  
stationarius (procul dubio circularis motus) in eodem  
puncto permanferit, pronius abire velimus.

Ita D. *Eimmartus* prescripsit ad amicum suum *Andream Arnoldum*, qui isthac *Regiae Societati Londinensi*, Fau-  
trici olim suæ, lubens meritoque transmittit.

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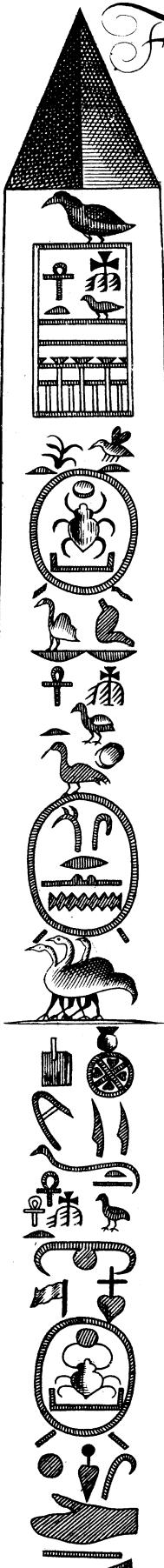
*A Letter, subscribed W. Tenon, concerning Dr Papin's new Water-Engine.*

SIR,

THE other day, upon reading in the *Transactions*,  
a description of the effects of a *Water-Engin*, in-  
vented by Dr *Papin*, and propounded as a Probleme to  
find out the contrivance, there came into my mind the  
following thought. I do not think it is the same with his,  
nor so good, but such as it is I send you, because variety  
of fancies gives hints many times to better new inven-  
tions.

Tab. 1. Fig. 3. *ABDE* signifies a cylindrical Vessel,  
closed

Fig.1.



Tab.1.

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Fig.2.

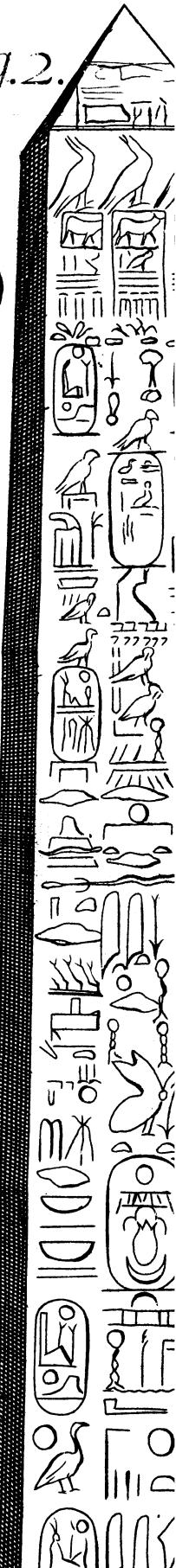


Fig.3.

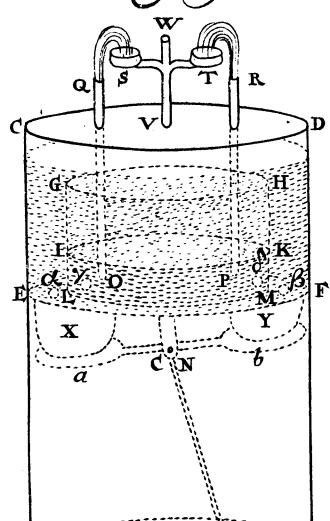
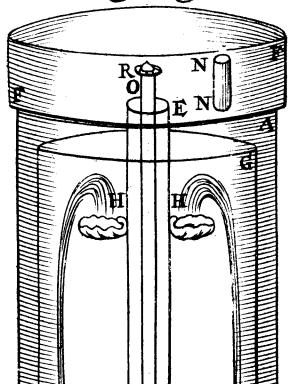
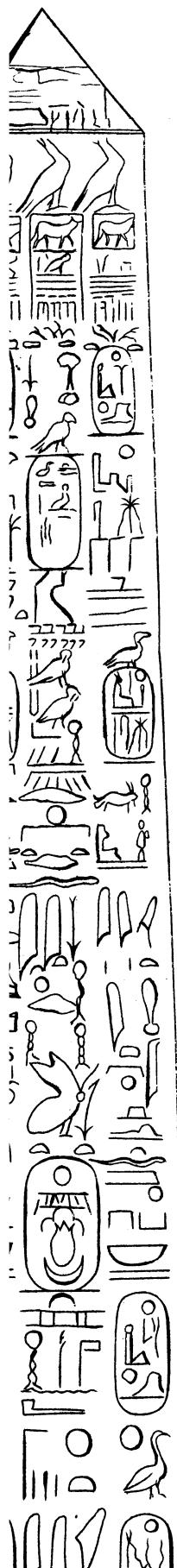
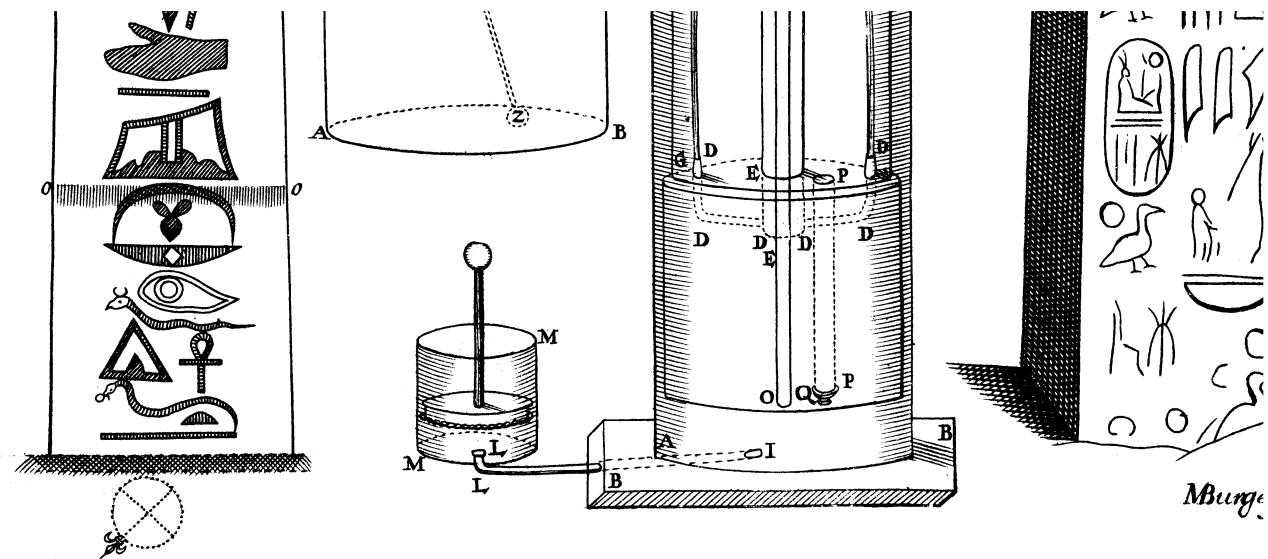


Fig.4.









*Munges ses sculp.*



Fig. 1. ~ Tab. 1.

Philosoph.  
Transact.  
Numb. 178,



*Mungesses sculp.*